

Diffusion of Dye through Agar Gel

Purpose

Discuss how the medium (liquid versus solid), and size of a molecule can affect the rate of diffusion.

Material

1. One agar plate
2. Methylene blue crystals
3. Potassium permanganate crystals
4. Forceps or spatula

Diffusion of Dye Through Agar Gel

1. Obtain an agar plate and locate the methylene blue and potassium permanganate crystals. They should be at the instructor's desk in a small beaker with a spatula.
2. Open the plate and [add a small amount of methylene blue crystals](#) to one side of the plate. Add the same amount of potassium permanganate crystals to the opposite side of the plate.
3. Observe the plate. **What happens? What do we call this process? Do both both crystals behave the same way? Why? or Why not?**
4. Once you have recorded your observations, you can discard the agar plate in the trash can.

DATA: Record your observations

CONCLUSION: Use the questions in number three (above) to write your conclusion. Write in paragraph form, using complete sentences. USE A DICTIONARY IF NECESSARY (I will be marking down for spelling).